August Yurgens

List of Publications by Year in Descending Order

94 papers	2,543 citations	28 h-index	49 g-index
102 ext. papers	2,714 ext. citations	3.2 avg, IF	4.83 L-index

#	Paper	IF	Citations
94	Large Responsivity of Graphene Radiation Detectors With Thermoelectric Readout: Results of Simulations. *Sensors*, **2020**, 20,	3.8	2
93	A graphene-based neutral particle detector. *Applied Physics Letters*, **2019**, 114, 061902	3.4	4
92	Making thick photoresist SU-8 flat on small substrates. *Journal of Micromechanics and Microengineering*, **2019**, 29, 017001	2	2
91	Vertically Aligned Graphene Coating is Bactericidal and Prevents the Formation of Bacterial Biofilms. *Advanced Materials Interfaces*, **2018**, 5, 1701331	4.6	47
90	Graphene bolometer with thermoelectric readout and capacitive coupling to an antenna. *Applied Physics Letters*, **2018**, 112, 063501	3.4	18
89	SINIS bolometer with a suspended absorber. *Journal of Physics: Conference Series*, **2018**, 969, 012088	0.3	1
88	Chiral charge pumping in graphene deposited on a magnetic insulator. *Physical Review B*, **2017**, 95,	3.3	19
87	Encapsulation of graphene in Parylene. *Applied Physics Letters*, **2017**, 110, 053504	3.4	14
86	Thermoelectric effects in graphene at high bias current and under microwave irradiation. *Scientific Reports*, **2017**, 7, 15542	4.9	3
85	Electrical and optical properties of a bolometer with a suspended absorber and tunneling-current thermometers. *Applied Physics Letters*, **2017**, 110, 242601	3.4	7
84	Rapid chemical vapor deposition of graphene on liquid copper. *Synthetic Metals*, **2016**, 216, 93-97	3.6	13
83	A Mechanism for Highly Efficient Electrochemical Bubbling Delamination of CVD-Grown Graphene from Metal Substrates. *Advanced Materials Interfaces*, **2016**, 3, 1500492	4.6	28
82	Ultrahigh Surface-Enhanced Raman Scattering of Graphene from Au/Graphene/Au Sandwiched Structures with Subnanometer Gap. *Advanced Optical Materials*, **2016**, 4, 2021-2027	8.1	32
81	Pore-free bubbling delamination of chemical vapor deposited graphene from copper foils. *Journal of Materials Chemistry C*, **2015**, 3, 8634-8641	7.1	28
80	Single-crystalline Bi2Sr2CaCu2O8+x detectors for direct detection of microwave radiation. *Applied Physics Letters*, **2015**, 106, 152601	3.4	3
79	Measurements of weak localization of graphene in inhomogeneous magnetic fields. *JETP Letters*, **2015**, 102, 367-371	1.2	5
78	A Hybrid-Type CVD System for Graphene Growth. *Chemical Vapor Deposition*, **2015**, 21, 176-180		1

77	Unusual thermopower of inhomogeneous graphene grown by chemical vapor deposition. *Applied Physics Letters*, **2014**, 104, 021902	3.4	12
76	Control of the Dirac point in graphene by UV light. *JETP Letters*, **2014**, 98, 704-708	1.2	6
75	Detection of graphene microelectromechanical system resonance. *Journal of Applied Physics*, **2014**, 116, 224510	2.5	
74	Growth mechanism of graphene on platinum: Surface catalysis and carbon segregation. *Applied Physics Letters*, **2014**, 104, 152107	3.4	43
73	Influence of graphene synthesizing techniques on the photocatalytic performance of graphene-TiO2 nanocomposites. *Physical Chemistry Chemical Physics*, **2013**, 15, 15528-37	3.6	37
72	Frame assisted H2O electrolysis induced H2 bubbling transfer of large area graphene grown by chemical vapor deposition on Cu. *Applied Physics Letters*, **2013**, 102, 022101	3.4	91
71	Quantum Hall effect in graphene decorated with disordered multilayer patches. *Applied Physics Letters*, **2013**, 103, 233110	3.4	24
70	Metal-Free Graphene as Transparent Electrode for GaN-Based Light-Emitters. *Japanese Journal of Applied Physics*, **2013**, 52, 08JG05	1.4	2
69	Microwave characterization of Ti/Au-graphene contacts. *Applied Physics Letters*, **2013**, 103, 173111	3.4	3
68	Towards transfer-free fabrication of graphene NEMS grown by chemical vapour deposition. *Micro and Nano Letters*, **2012**, 7, 749	0.9	6
67	Chemical vapor deposition of nanocrystalline graphene directly on arbitrary high-temperature insulating substrates **2012**,		1
66	Low Partial Pressure Chemical Vapor Deposition of Graphene on Copper. *IEEE Nanotechnology Magazine*, **2012**, 11, 255-260	2.6	49
65	Graphene conductance uniformity mapping. *Nano Letters*, **2012**, 12, 5074-81	11.5	112
64	Direct Chemical Vapor Deposition of Large-Area Carbon Thin Films on Gallium Nitride for Transparent Electrodes: A First Attempt. *IEEE Transactions on Semiconductor Manufacturing*, **2012**, 25, 494-501	2.6	20
63	Transfer-free fabrication of suspended graphene grown by chemical vapor deposition **2012**,		3
62	The Aharonov-Bohm effect in graphene rings with metal mirrors. *Carbon*, **2012**, 50, 5562-5568	10.4	9
61	Cleaning graphene using atomic force microscope. *Journal of Applied Physics*, **2012**, 111, 064904	2.5	51
60	Controllable chemical vapor deposition of large area uniform nanocrystalline graphene directly on silicon dioxide. *Journal of Applied Physics*, **2012**, 111, 044103	2.5	46

59	Graphene p□□ junctions controlled by local gates made of naturally oxidized thin aluminium films. *Carbon*, **2012**, 50, 1987-1992	10.4	15
58	Noncatalytic chemical vapor deposition of graphene on high-temperature substrates for transparent electrodes. *Applied Physics Letters*, **2012**, 100, 022102	3.4	61
57	Large-area uniform graphene-like thin films grown by chemical vapor deposition directly on silicon nitride. *Applied Physics Letters*, **2011**, 98, 252107	3.4	72
56	Family of graphene-based superconducting devices. *JETP Letters*, **2011**, 94, 329-332	1.2	6
55	Temperature distribution in a large Bi2Sr2CaCu2O8+□mesa. *Physical Review B*, **2011**, 83,	3.3	75
54	Temperature distribution in a stack of intrinsic Josephson junctions with their CuO-plane electrodes oriented perpendicular to supporting substrate. *Superconductor Science and Technology*, **2011**, 24, 015003	3.1	14
53	In situ detection of radiation and heat balance in large Bi2212 mesas. *Physica C: Superconductivity and Its Applications*, **2010**, 470, 818-821	1.3	3
52	Intrinsic Josephson Tunneling in High-Temperature Superconductors. *Nanoscience and Technology*, **2010**, 137-161	0.6	
51	Small-number arrays of intrinsic Josephson junctions. *Physica C: Superconductivity and Its Applications*, **2008**, 468, 674-678	1.3	7
50	Intrinsic Josephson junctions in mesas and ultrathin BSCCO single crystals: Ultimate control of shape and dimensions. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 316-319	1.3	
49	Intrinsic Josephson junctions formed inside ultra-thin BSCCO single crystals. *Superconductor Science and Technology*, **2007**, 20, S28-S33	3.1	2
48	Self-consistent estimations of heating in stacks of intrinsic Josephson junctions. *Superconductor Science and Technology*, **2007**, 20, S48-S53	3.1	6
47	Current-induced in-plane superconducting transition in intrinsic Josephson junctions. *Superconductor Science and Technology*, **2006**, 19, S209-S212	3.1	3
46	Thickness dependence of the superconducting properties of ultra-thin Bi2Sr2CaCu2O8+xsingle crystals. *Superconductor Science and Technology*, **2006**, 19, S205-S208	3.1	6
45	Single intrinsic Josephson junction with double-sided fabrication technique. *Applied Physics Letters*, **2006**, 88, 222501	3.4	18
44	Superconducting critical current of a single Cu2O4 plane in a Bi2Sr2CaCu2O8+x single crystal. *Physical Review B*, **2005**, 71,	3.3	22
43	Superconducting properties of ultrathin Bi2Sr2CaCu2O8+x single crystals. *Journal of Applied Physics*, **2005**, 98, 033913	2.5	13
42	Yurgens et al. Reply:. *Physical Review Letters*, **2004**, 92,	7.4	31

41	Intrinsic Josephson junctions in a magnetic field. *Physica C: Superconductivity and Its Applications*, **2004**, 404, 431-439	1.3	
40	Intrinsic tunneling spectra of Bi2(Sr(2-x)Lax)CuO(6+delta). *Physical Review Letters*, **2003**, 90, 147005	7.4	58
39	Intrinsic tunneling in high-Tc Bi2212 crystals supports a coexistence of superconducting and pseudo-gaps. *Physica C: Superconductivity and Its Applications*, **2001**, 352, 89-94	1.3	7
38	Pseudogap features of intrinsic tunneling in Bi2212 single crystals. *Physica C: Superconductivity and Its Applications*, **2001**, 362, 286-289	1.3	9
37	Intrinsic Josephson tunneling for basic studies of high-temperature superconductors. *Current Applied Physics*, **2001**, 1, 413-417	2.6	1
36	Fabrication of Bi/sub 2/Sr/sub 2/CaCu/sub 2/O/sub 8+/spl delta// films and intrinsic Josephson junctions. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 2703-2706	1.8	1
35	Self-heating in small mesa structures. *Journal of Applied Physics*, **2001**, 89, 5578-5580	2.5	55
34	Magnetic field dependence of the superconducting gap and the pseudogap in Bi2212 and HgBr2-Bi2212, studied by intrinsic tunneling spectroscopy. *Physical Review Letters*, **2001**, 86, 2657-60	7.4	126
33	Flux-flow branches and Fiske steps in Bi-2212 mesas. *Physica B: Condensed Matter*, **2000**, 284-288, 1856-1857	1.3	4
32	Intrinsic Josephson junctions for studies of high-Tc superconductors. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 2277-2280	1.3	3
31	Intrinsic Josephson junctions: recent developments. *Superconductor Science and Technology*, **2000**, 13, R85-R100	3.1	142
30	Comparison of Josephson fluxon modes in high- and low-temperature superconducting stacked Josephson junctions. *Physical Review B*, **2000**, 61, 766-777	3.3	26
29	Evidence for coexistence of the superconducting gap and the pseudogap in Bi-2212 from intrinsic tunneling spectroscopy. *Physical Review Letters*, **2000**, 84, 5860-3	7.4	289
28	Intrinsic Josephson effects in submicrometre Bi2212 mesas fabricated by using focused ion beam etching. *Superconductor Science and Technology*, **1999**, 12, 1013-1015	3.1	6
27	Multiple flux-flow branches and phase transition of Josephson fluxon lattice in intrinsic Bi/sub 2/Sr/sub 2/CaCu/sub 2/O/sub 8+x/ stacked Josephson junctions. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 4499-4502	1.8	2
26	Bi2Sr2CaCu2O8+δ intrinsic Josephson junctions in a magnetic field. *Physical Review B*, **1999**, 59, 7196-7204	3.3	42
25	Partial filling of columnar defects by vortices as seen in measurements of the c-axis critical current of Bi2Sr2CaCu2O8+δ *Physical Review B*, **1999**, 60, 12480-12484	3.3	11
24	Interlayer Coupling and Superconducting Critical Temperature of Bi2Sr1.5La0.5CuO6+δ and Bi2Sr2CaCu2O8+δ Incommensurate Effects of Pressure. *Physical Review Letters*, **1999**, 82, 3148-3151	7.4	17

23	EFFECT OF PRESSURE ON INTERLAYER COUPLING AND SUPERCONDUCTING TRANSITION TEMPERATURE OF Bi-2201 AND Bi-2212. *International Journal of Modern Physics B*, **1999**, 13, 3744-3746	1.1	1
22	Fluxon modes in stacked HTSC intrinsic Josephson junctions. *Applied Superconductivity*, **1999**, 6, 777-782		2
21	Effect of Pressure on the Out-of-Plane Critical Current and T c of Bi-2201 and Bi-2212 Single Crystals. *Journal of Low Temperature Physics*, **1999**, 117, 1211-1215	1.3	1
20	Fiske steps in intrinsic Bi2Sr2CaCu2O8+x stacked Josephson junctions. *Physical Review B*, **1999**, 59, 8463-8466	3.3	79
19	PSEUDO-GAP FEATURES OF INTRINSIC TUNNELING IN (HgBr2)-Bi2212 SINGLE CRYSTALS. *International Journal of Modern Physics B*, **1999**, 13, 3758-3763	1.1	55
18	Magnetic field dependence of the critical current in stacked Josephson junctions. Evidence for fluxon modes in Bi2Sr2CaCu2O8+x mesas. *Physica C: Superconductivity and Its Applications*, **1998**, 304, 172-178	1.3	13
17	Multiple-valued c-axis critical current and phase locking in Bi2Sr2CaCu2O8+□single crystals. *Physical Review B*, **1998**, 57, R8135-R8138	3.3	44
16	Observation of normal and superconducting state energy gap features from intrinsic c-axis interlayer tunneling in Bi 2 Sr 2 CaCu 2 O 8 crystals **1998**, 3480, 11		3
15	In situ controlled fabrication of stacks of high-Tc intrinsic Josephson junctions. *Applied Physics Letters*, **1997**, 70, 1760-1762	3.4	55
14	Relationship between the Out-Of-Plane Resistance and the Subgap Resistance of Intrinsic Josephson Junctions in Bi2Sr2CaCu2O8+□*Physical Review Letters*, **1997**, 79, 5122-5125	7.4	50
13	C-axis magnetoresistance of a few atomic surface layers of the Bi:2212 single crystals. *Physica C: Superconductivity and Its Applications*, **1997**, 282-287, 2293-2294	1.3	1
12	The c-axis gap parameter and resistivity of an individual intrinsic tunnel junction in Bi-2212 single crystals. *Physica C: Superconductivity and Its Applications*, **1997**, 293, 181-185	1.3	1
11	Gap and sub-gap stuctures of intrinsic Josephson tunnel junctions in Bi 2 Sr 2 CaCu 2 O 8+x single crystals **1996**,		21
10	Peak in the temperature dependence of the c-axis Josephson current in Bi2Sr2CaCu2O8+x intrinsic Josephson junctions. *European Physical Journal D*, **1996**, 46, 1273-1274		3
9	Intrinsic Josephson junctions in Bi2Sr2CaCu2O8+□single crystals. *European Physical Journal D*, **1996** , 46, 1293-1294		1
8	Strong temperature dependence of the c-axis gap parameter of Bi2Sr2CaCu2O8+ delta intrinsic Josephson junctions. *Physical Review B*, **1996**, 53, R8887-R8890	3.3	130
7	Intrinsic Josephson tunnel junctions fabricated on the surfaces of Bi2212 single crystals by photolithography. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 3269-3270	1.3	34
6	Vortex motion under the influence of a temperature gradient. *Physical Review B*, **1992**, 46, 6643-6646	3.3	27

5	Optically induced magnetic relaxation in Bi-2212 single crystals. *Physica C: Superconductivity and Its Applications*, **1992**, 203, 277-283	1.3	9
4	Transport coefficients and flux motion in Bi2Sr2CaCu2Ox single crystals. *Physica C: Superconductivity and Its Applications*, **1991**, 180, 417-425	1.3	76
3	Mixed state properties of Bi2Sr2CaCu2Ox single crystals with Tc=95 K. *Physica C: Superconductivity and Its Applications*, **1991**, 185-189, 1817-1818	1.3	4
2	Transport properties of Bi2Sr2CaCu2Ox single crystals with Tc=95 K. *Physica C: Superconductivity and Its Applications*, **1990**, 169, 174-178	1.3	23
1	Phonon transport phenomena in high-Tc superconductors. *Physica C: Superconductivity and Its Applications*, **1989**, 162-164, 562-563	1.3	3